

silicon-based structural component
(e.g. silane, siloxane, silsesquioxane, silicate)

Figure1. Generic anatomy of invention

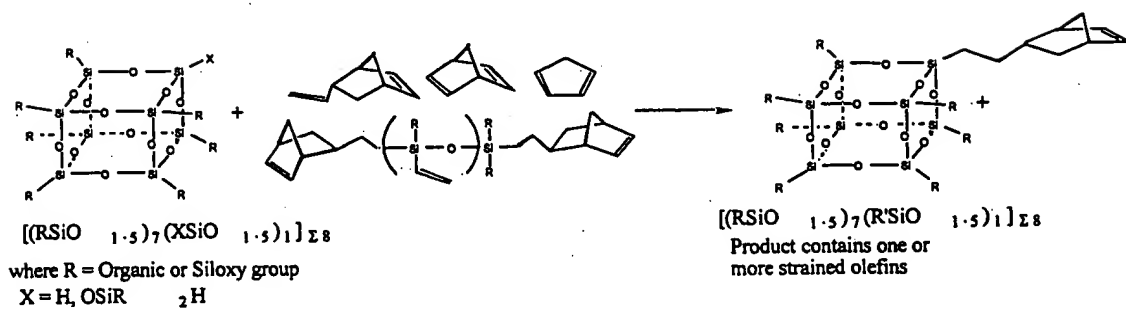


Figure 2: Hydrosilylation method for attaching ROMP group. Only monohydrosilylation is shown, polyhydrosilylations can also be carried out.

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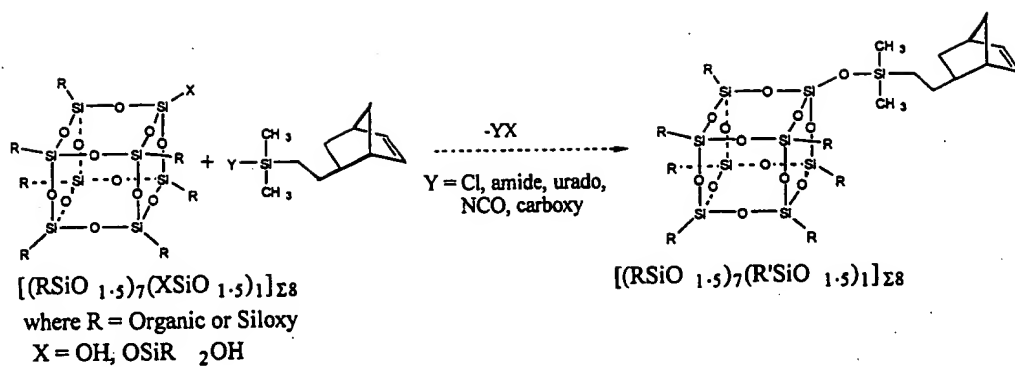


Figure 3. Silation method for attaching ROMP group. Monosilation was shown, polysilations can also be carried out.

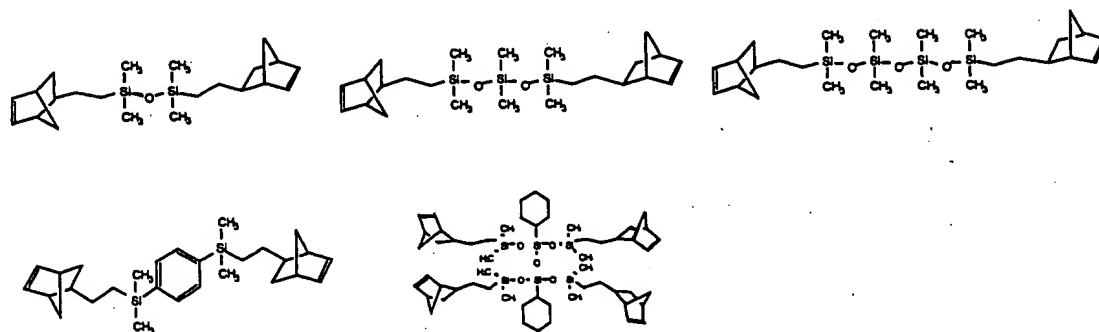


Figure 4. Representative examples of non-nanostructured oligomeric siloxane and silsesquioxane systems.

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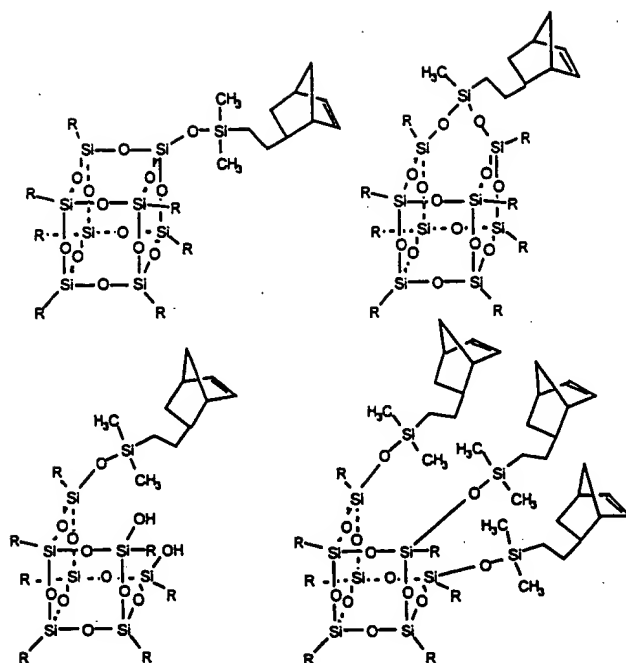


Figure 5. Examples of mono and tris functionalized POSS and POS nanostructure

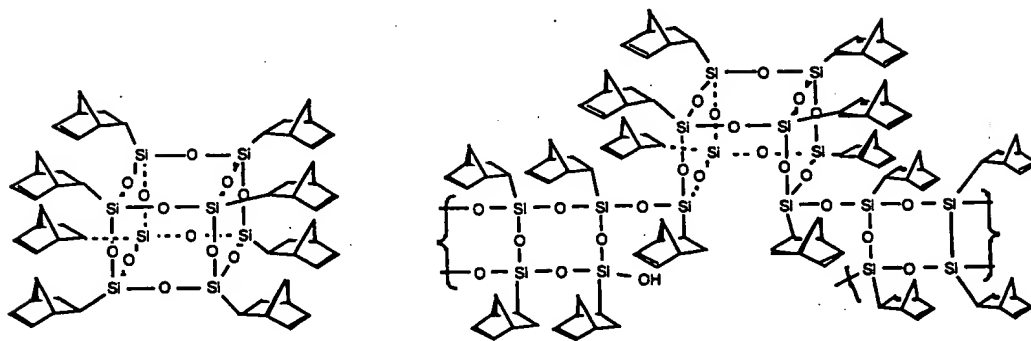


Figure 6. Examples of polyfunctionalized POSS, POS and Silsesquioxane resin systems.

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